

BIG SHEETS

THE FACTS ABOUT

*Weatherproof*  
**HOMASOTE**

The insulating and building board  
for new construction and for modernization



## THE MEANING OF WEATHERPROOF

In the most humid parts of tropical Africa — in the frozen bases of Little America — and in every kind of climate between those two extremes — Homasote has met every conceivable test for a top-quality insulating and building board.

Letters from home owners — in all parts of the world — testify that Homasote homes have come through floods, blizzards, tornadoes, hurricanes and even fires — with little or no damage.

This performance record — covering a period of more than thirty years — is no surprise to anyone who has ever visited the Homasote Mills in Trenton, New Jersey. There are no warehouses! Winter or Summer, the big sheets of Homasote are piled outdoors, as soon as completed. There they lie until needed. Then they are trimmed to size — which may be as big as 8' x 14' or as small as 4' x 4'. They are immediately ready for shipment. This has been standard practice from the start. It is the behind-the-scenes evidence that the Homasote Company know their product is weatherproof.

## WHERE TO USE HOMASOTE

Homasote is the all-purpose insulating and building board. It has been used in the construction of thousands of new homes — ranging in price from \$2,000 up to \$60,000. In many of these homes it has been specified as interior finish for both walls and ceilings — as exterior sheathing or finish — as roof sheathing and sub-flooring. In thousands of other homes, Homasote has been used for modernization and repair work of every type.

Homasote is strong, economical, quick and easy to use — for farm buildings of all sizes; for summer camps, garages, play houses, bath houses, tool sheds and filling stations.

In both strength and appearance it has proved unusually suitable for store fronts, store interiors, murals, advertising displays, window decorations, bulletin boards, dart games, hampers and the like.



## PHYSICAL CHARACTERISTICS

Thickness in inches .....	15-32
Weight per sq. ft. in lbs. ....	1.00
Weight per cu. ft. in lbs. ....	25.5
Ultimate Tensile Strength, lbs. per sq. in. ....	680
Transverse Strength (Modulus of Rupture) lbs. per sq. in. ....	1100
Modulus of Elasticity, lbs. per sq. in. ....	42,500
Ultimate Compressive Strength, lbs. per sq. in. ....	19,500
Thermal Conductivity B.T.U. per hr. per sq. ft. per in. thickness per 1° F. difference .....	0.42
Air Infiltration per sq. ft. per hr. in cu. ft.: Wind Velocity 20 miles .....	0.1
40 miles .....	0.5
60 miles .....	1.9
80 miles .....	4.3
100 miles .....	7.75
Sound Absorption for pitch 512.....	0.23
Water Absorption: (20 hrs.) % by weight.....	17



## APPLICATION

**EXPANSION** . . . All Homasote must be expanded before applying. To expand, wet the entire surface, stack in a pile for at least overnight, but not longer than 48 hours. If any danger of freezing, stack in warm place. **FRAMING** . . . Frame all members on not greater than 16" centers. Bearing shall be provided for all edges.

**EXTERIOR** . . . Nail to the framing with 5d cement-coated box nails. Start nailing in center of sheet, placing nails 10" to 12" apart, working out from center to each end simultaneously and staggering nails on alternate studs. Always keep nails at edges at least 1/2" back from the edge of board and 6" on centers.

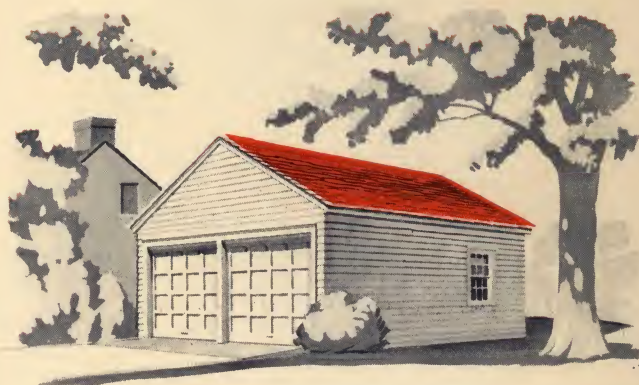
As a finished exterior surface, glue and nail to framing, using Sote Glue. Use special Homasote nails spaced as described above. Allow 1/8" between abutting sheets for expansion.

**INTERIOR** . . . Interior Homasote shall be both glued and nailed to the framing in the case of walls and ceilings, using special Homasote nails. Nail as for exterior Homasote. Allow 1/8" between abutting sheets for expansion. *Homasote on ceilings should be applied on 1" x 2" furring strips 12" on centers for best results.*

Homasote used as sub-flooring shall be nailed to the framing with 5d cement-coated box nails spaced as described above.

**GLUE** . . . Sote Glue, obtainable from our company, is a self-bonding glue designed for gluing Homasote to wood framing members. **CAUTION:** Follow instructions for mixing explicitly. Keep equipment and utensils clean. Do not add more water than specified.

**MIXING DIRECTIONS FOR USE WITH HOMASOTE ONLY.** 13/4 pounds (13/4 pints) cold water (65-70°F.) 1 pound of dry glue (Note: All the glue powder should be added to the water BEFORE stirring). 4 tablespoons of Kerosene. Place water in pail and dump in glue powder. Mix well with a paddle or power mixer. At this point the glue usually will become too thick to stir, but DO NOT add more water as the glue will become thinner within about twenty minutes, after which stir until glue is smooth. Add 4 tablespoons of Kerosene and mix well. This glue has a working life of about 4 or 5 hours. DO NOT attempt to add water after it has commenced to set. The glue may be applied with either applicator or brush. Glue required for application of Homasote on framing is 0.65 lbs. per sq. ft. of Homasote.



## SHEATHING

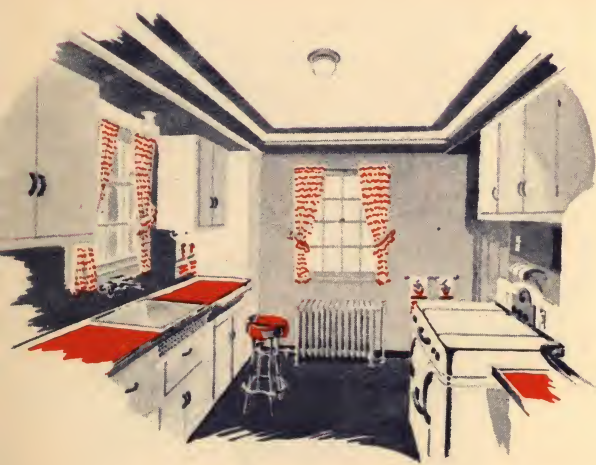
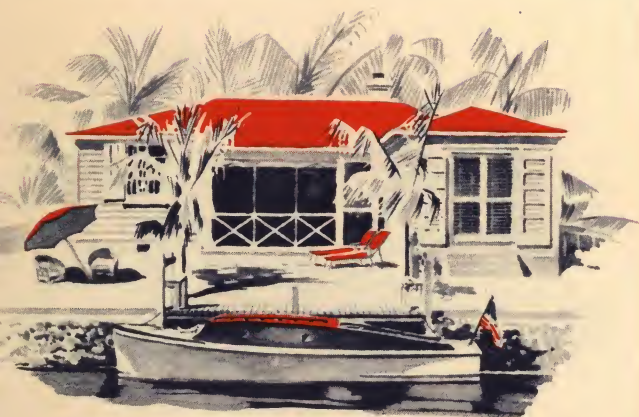
**SIDEWALLS** . . . If masonry veneer is to be used over Homasote sheathing, a minimum of 1" air space shall be provided between Homasote and masonry. If wood siding is used over Homasote sheathing, 3/8" furring lath shall be applied vertically over each stud and at all openings to provide an air space between the Homasote and the siding. If shingles are used over Homasote sheathing, 1" x 2" nailing strips shall be applied horizontally on the face of the Homasote and nailed through to the studs.

**ROOFING** . . . Apply 1" x 2" furring strips to rafters, 12" on centers. Nail pre-expanded Homasote to furring strips. Apply asphalt shingles with 3/4" Viking Staples. For wood shingles, Homasote is applied directly to the rafters and then 1" x 2" furring strips are applied on the face of the Homasote and nailed into the rafters at whatever centers the size shingle demands, using special Homasote nails.

**SUB-FLOORING** . . . Apply Homasote directly to joists with not over 20" on centers. Finished flooring shall be laid over it immediately. With 1/2" flooring, joists must be on 10" centers.



Trenton 3, New Jersey



## PAINTING AND WALLPAPERING

**EXTERIOR PAINTING** . . . Repair all surface damages and fill all nail holes before paint is applied. Surface damages and holes shall be filled with a compound such as "Plastic Surfer," made by the Glidden Company, Cleveland, Ohio, or "Spackling Compound," made by Muralo Company, Incorporated, Staten Island, New York. Use only enough water to make a rather stiff mixture. Mix the night before and place a damp cloth over container. The painter shall keep his putty knife clean at all times by scraping it on the side of the wide spatula. Only enough compound should be taken on the putty knife at one time to surface putty one hole and this should be applied with a circular stroke around the nail hole to cover.

First coat shall be of a high-grade exterior sealer or a good grade of lead and oil paint cut with varnish size approximately two parts paint to one part varnish size. Following coats shall be of a good grade of lead and oil paint.

Exterior Homasote may also be painted with *Homasote Sand Finish*. Write for instructions.

**INTERIOR PAINTING** . . . Before priming, the painter shall repair all surface damages and fill all nail holes, as described for exterior painting.

For interior painting of Homasote, the following primers are recommended and may be either brushed or sprayed: "Seal-Over," made by Arvon Products Company, Incorporated, Philadelphia, Pa.; "Primer & Sealer No. 9843," made by Vita-Var Corporation, Newark, N. J. Interior texture paints, either of water base or oil base, may be used, but Homasote must be primed with one of the above-mentioned primers. Texture paints shall be applied in accordance with the manufacturer's specifications.

**WALLPAPERING** . . . Homasote shall be sized with glue size and wallpaper applied with any commercial wheat flour paste.

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*Never use plaster over Homasote!*

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*All painting and wallpapering must be completed, before corner, ceiling or cover mouldings are applied!*

## MOULDINGS

*All Homasote joints must be covered with some rigid type of covering such as wood, metal or plastic mouldings — applied so that the Homasote is free to expand and contract in back of the covering. Corner mouldings and cover mouldings (used over flat joints) shall be nailed so that nails go directly into the wood framing without passing through the Homasote. Ceiling cornice mouldings shall be nailed through the ceiling Homasote only. These mouldings shall be applied after walls have been painted or papered. For best results, mouldings shall be painted before installation.*

Mouldings or battens used for exterior work shall be back painted before erection. Mouldings with a rounded edge must be used where contact is made with a Homasote wall or ceiling. *In-corner mouldings* are not obtainable in stock and must be especially run to the shape indicated.

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*For more detailed information, the builder or architect is invited to write for our new, fully-illustrated booklet.*

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